

# RAW SEQUENCE LISTING ERROR REPORT

1631  
BIOTECHNOLOGY  
SYSTEMS  
BRANCH

RECEIVED  
JUN 14 2001  
600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/540,209

Art Unit / Team No. :

01PE

Date Processed by STIC:

6/14/2000

J #6

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

NOV 3 2001

RECEIVED

TECH CENTER 1600/2900

Does Not Comply  
Corrected Diskette NeededRAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/540,209DATE: 06/21/2000  
TIME: 11:58:47Input Set : N:\jumbos\540209.txt  
Output Set: N:\CRF3\06212000\I540209.raw

4 <110> APPLICANT: Keith G. Weinstock et al.  
 6 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER  
 7 CLOACAE FOR DIAGNOSTICS AND THERAPEUTICS  
 9 <130> FILE REFERENCE: 107196.135  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/540,209  
 C--> 14 <141> CURRENT FILING DATE: 2000-04-04  
 14 <160> NUMBER OF SEQ ID NOS: 11324

## ERRORED SEQUENCES

128258 <210> SEQ ID NO: 5664  
 128259 <211> LENGTH: 77 *96 shown*  
 128260 <212> TYPE: PRT  
 128261 <213> ORGANISM: Enterobacter cloacae  
 128263 <400> SEQUENCE: 5664  
 128264 Ser Arg Thr Arg Gln Glu Arg Lys Ser Lys Thr Asp Arg Lys Lys Arg  
 128265 1 5 10 15  
 128266 Asn Arg Lys Glu Gln Gly Ser Lys Thr Pro Gln Glu Glu Asn Pro Asn  
 128267 20 25 30  
 128268 Lys Thr Lys Ala Asn Arg Arg Asp Ser Ser Gln Asn Thr Ser Arg Asp  
 128269 35 40 45  
 128270 Thr Lys Thr Thr Glu Ala Thr Pro Ile Gln Lys Asp Gly Asp Asn Ile  
 128271 50 55 60  
 128272 Ser Thr Lys Lys Thr Asn Arg Asp Lys Asn Arg Thr  
 E--> 128273 65 70 75  
 128304 <210> SEQ ID NO: 5665  
 128305 <211> LENGTH: 89 *88*  
 128306 <212> TYPE: PRT  
 128307 <213> ORGANISM: Enterobacter cloacae  
 128309 <400> SEQUENCE: 5666  
 128310 Ser Ser Gly Cys Arg Gln Glu Asn Arg Leu Ser Val Gly Asn Ser Ile  
 128311 1 5 10 15  
 128312 Gly Gln Asp Arg Arg Phe Leu Phe Lys Tyr Met Pro Glu Leu Glu Ser  
 128313 20 25 30  
 128314 Tyr Phe His Tyr Arg Tyr Leu Asp Val Ser Thr Leu Lys Glu Leu Ala  
 128315 35 40 45  
 128316 Arg Arg Trp Lys Pro Glu Ile Phe Asp Gly Phe Thr Lys Gln Gly Thr  
 128317 50 55 60  
 128318 His Gln Ala Met Asp Asp Ile Arg Glu Ser Val Ala Glu Leu Ala Tyr  
 128319 65 70 75 80  
 128320 Tyr Arg Glu Asn Phe Ile Lys Leu  
 E--> 128321 85  
 128323 <210> SEQ ID NO: 5667  
 128324 <211> LENGTH: 131 *130 (next page)*  
 128325 <212> TYPE: PRT  
 128326 <213> ORGANISM: Enterobacter cloacae

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/540,209  
 DATE: 06/21/2000  
 TIME: 11:59:03

Input Set : N:\jumbos\540209.txt  
 Output Set: N:\CRF3\06212000\I540209.raw

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128328 <400> SEQUENCE: 5667
128329 Pro Ala Thr Ala Gly Tyr Ala Arg Arg Val Glu Asn Asn Met Ser Ala
128330 1 5 10 15
128331 Asp Glu Asn Asn Leu Ile Trp Ile Asp Leu Glu Met Thr Gly Leu Asp
128332 20 25 30
128333 Pro Glu Arg Asp Arg Ile Ile Glu Ile Ala Thr Leu Val Thr Asp Ala
128334 35 40 45
128335 Asn Leu Asn Ile Leu Ala Glu Gly Pro Thr Ile Ala Val His Gln Ser
128336 50 55 60
128337 Asp Asp Gln Leu Ala Leu Met Asp Glu Trp Asn Val Arg Thr His Thr
128338 65 70 75 80
128339 Gly Ser Gly Leu Val Glu Arg Val Lys Ala Ser Thr Leu Gly Asp Arg
128340 85 90 95
128341 Glu Ala Glu Leu Ala Thr Leu Glu Phe Leu Lys Gln Trp Val Pro Ala
128342 100 105 110
128343 Gly Lys Ser Pro Ile Cys Gly Gln Gln His Trp Ser Gly Ser Ser Phe
128344 115 120 125
128345 Pro Val
E--> 128346 130
128348 <210> SEQ ID NO: 5668
128349 <211> LENGTH: 225
128350 <212> TYPE: PRT
128351 <213> ORGANISM: Enterobacter cloacae
128353 <400> SEQUENCE: 5668
128354 Pro Leu Pro Leu Ser Trp Gln Ser Val Val Lys Thr Ser Ala Thr Phe
128355 1 5 10 15
128356 Phe Thr Asn Ile Thr Leu Gly Lys Leu Ser Leu Leu Phe Leu Ala Leu
128357 20 25 30
128358 Gly Val Ala Tyr Ala Ala Ile Arg Arg Thr Leu Leu Ile Val Tyr Pro
128359 35 40 45
128360 Pro Ile Leu Ser Asp Gly Leu Phe Asn Phe Val Val Met Gln Thr Leu
128361 50 55 60
128362 Phe Tyr Ile Pro Phe Phe Leu Ile Gly Ala Leu Ala Phe Ile His Pro
128363 65 70 75 80
128364 Arg Leu Lys Ala Leu Phe Thr Thr Pro Ser Pro Trp Cys Ala Val Gly
128365 85 90 95
128366 Ala Ala Leu Ala Phe Ala Ala Tyr Leu Leu Asn Gln Arg Tyr Gly Ser
128367 100 105 110
128368 Gly Asp Ala Trp Met Tyr Glu Thr Glu Ser Val Ile Thr Met Leu Met
128369 115 120 125
128370 Gly Leu Trp Met Val Asn Val Val Phe Ala Leu Gly His Arg Leu Leu
128371 130 135 140
128372 Asn Phe Lys Ser Ser Arg Val Thr Tyr Phe Val Asn Ala Ser Leu Phe
128373 145 150 155 160
128374 Ile Tyr Leu Val His His Pro Leu Thr Leu Phe Phe Gly Ala Tyr Ile
128375 165 170 175
128376 Thr Pro His Ile Ala Ser Asn Ala Leu Gly Phe Phe Thr Gly Leu Val
128377 180 185 190
128378 Phe Val Val Gly Ile Ala Ile Val Leu Tyr Glu Ile His Leu Arg Ile

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## RAW SEQUENCE LISTING

DATE: 06/21/2000

PATENT APPLICATION: US/09/540,209

TIME: 11:59:03

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

128379 195 200 205  
 128380 Pro Leu Leu Arg Phe Leu Phe Ser Gly Lys Pro Gln Val Lys Ala Gly  
 128381 210 215 220  
 E--> 128383 225  
 128420 <210> SEQ ID NO: 5670  
 128421 <211> LENGTH: 308  
 128422 <212> TYPE: PRT  
 128423 <213> ORGANISM: Enterobacter cloacae  
 128425 <400> SEQUENCE: 5670  
 128426 Ser Pro Cys Ile Ile Ala Thr Leu Phe Ala Pro Glu Pro Ser Asp Val  
 128427 1 5 10 15  
 128428 Ile Pro Phe Pro Arg Ser Leu Glu Gln Ala Val Ala Ala Pro Phe Arg  
 128429 20 25 30  
 128430 Asp Phe Phe Gly Arg Asn Asn Ala Trp Leu Ile Leu Leu Ile Val  
 128431 35 40 45  
 128432 Leu Tyr Lys Leu Gly Asp Ala Phe Ala Met Ser Leu Thr Thr Phe  
 128433 50 55 60  
 128434 Leu Ile Arg Gly Val Gly Phe Asp Ala Gly Glu Val Gly Val Val Asn  
 128435 65 70 75 80  
 128436 Lys Thr Leu Gly Leu Phe Ala Thr Ile Val Gly Ala Leu Tyr Gly Gly  
 128437 85 90 95  
 128438 Val Leu Met Gln Arg Leu Ser Leu Phe Arg Ala Leu Leu Ile Phe Gly  
 128439 100 105 110  
 128440 Ile Leu Gln Gly Ala Ser Asn Ala Gly Tyr Trp Leu Leu Ser Ile Thr  
 128441 115 120 125  
 128442 Asp Lys His Met Ile Ser Met Ala Thr Ala Val Phe Phe Glu Asn Leu  
 128443 130 135 140  
 128444 Cys Gly Gly Met Gly Thr Ala Ala Phe Val Ala Leu Leu Met Thr Leu  
 128445 145 150 155 160  
 128446 Cys Asn Lys Ser Phe Ser Ala Thr Gln Phe Ala Leu Leu Ser Ala Leu  
 128447 165 170 175  
 128448 Ser Ala Val Gly Arg Val Tyr Val Gly Pro Val Ala Gly Trp Phe Val  
 128449 180 185 190  
 128450 Glu Ala His Gly Trp Pro Thr Phe Tyr Leu Phe Ser Val Val Ala Ala  
 128451 195 200 205  
 128452 Val Pro Gly Ile Leu Leu Leu Val Cys Arg Gln Thr Leu Glu Tyr  
 128453 210 215 220  
 128454 Thr Gln Arg Thr Glu His Phe Met Pro Arg Thr Glu Tyr Gln Ala Ala  
 128455 225 230 235 240  
 128456 Tyr Arg Phe Ala Leu Arg Leu Leu Met Ala Gly Cys Leu Ala Leu Val  
 128457 245 250 255  
 128458 Val Trp Leu Ala Val Leu Ile Ile Asn Ala Thr Thr Thr Leu Ser Leu  
 128459 260 265 270  
 128460 Pro Phe Glu Thr Gln Leu Leu Asp Ala Gly Val Phe Leu Ala Ile Val  
 128461 275 280 285  
 128462 Gly Ile Leu Thr Gly Gly Met Leu Asp Phe Met Ser Leu Arg Lys Thr  
 128463 290 295 300  
 128464 Gln Met Thr  
 E--> 128465 305

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Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

128467 <210> SEQ ID NO: 5671  
 128468 <211> LENGTH: 335  
 128469 <212> TYPE: PRT  
 128470 <213> ORGANISM: Enterobacter cloacae  
 128472 <220> FEATURE:  
 128473 <221> NAME/KEY: UNSURE  
 128474 <222> LOCATION: (333)  
 128476 <400> SEQUENCE: 5671  
 128477 Met Ala Asn Tyr Thr Val Asp Glu Phe Ile Ile Gln Leu Gly Phe Asn  
 128478 1 5 10 15  
 128479 Glu Thr Val Ser Lys Asn Leu Gln Lys Leu Glu Ser Arg Thr Leu Lys  
 128480 20 25 30  
 128481 Val Ala Glu Arg Ile Glu Lys Asn Leu Asn Arg Ala Phe Thr Pro Lys  
 128482 35 40 45  
 128483 Gly Asp Phe Gly Arg Val Ile Ser Ser Ala Asn Asn Ala Ser Lys Gln  
 128484 50 55 60  
 128485 Ile Asn Arg Ala Phe Ser Lys Ser Met Asn Phe Asp Glu Ala Gly Lys  
 128486 65 70 75 80  
 128487 Ser Ser Val Lys Ser Val Glu Asn Ala Ala Lys Ala Ser Ala Lys Arg  
 128488 85 90 95  
 128489 Ile Lys Asp Met Tyr Gln Asp Ala Tyr Gly Ala Lys Gly Lys Gly Arg  
 128490 100 105 110  
 128491 Ser Asn Pro Pro Ala Ala Gly Lys Pro Gln Gly Arg Gly Ser Asp Leu  
 128492 115 120 125  
 128493 Thr Ala Ala Asn Ser Ile Arg Ser Leu Ala Asn Thr Gln Phe Tyr Ser  
 128494 130 135 140  
 128495 Asn Leu Thr Arg Arg Leu Glu Gly Met Gly Ser Thr Gly Gln Ala Arg  
 128496 145 150 155 160  
 128497 Ala Met Lys Leu Arg Gln Gln Val His Gly Leu Arg Asp Asp Ala Leu  
 128498 165 170 175  
 128499 Ala Asn Pro Ser Ala Ser Leu Asn Gln Phe Arg Leu Ala Leu Arg Ala  
 128500 180 185 190  
 128501 Ala Thr Asp Ser Ala Ser Lys Trp Ala Ser Gln Asn Arg Lys Gln Val  
 128502 195 200 205  
 128503 Ser Asn Ala Glu Gly Leu Ser Ser Ser Phe Gly Arg Leu Val Ser Val  
 128504 210 215 220  
 128505 Ser Ala Ala Leu Tyr Gly Thr Phe Glu Ala Val Arg Lys Val Val Glu  
 128506 225 230 235 240  
 128507 Thr Gly Val Ala Arg Glu Gly Val Asn Leu Ser Ala Glu Ala Val Phe  
 128508 245 250 255  
 128509 Lys Gly Gln Ser Lys Asn Ala Lys Thr Phe Ala Ala Gln Phe Ser Asp  
 128510 260 265 270  
 128511 Gln Ile Gly Gln Gly Val Thr Glu Thr Leu Lys Gln Tyr Thr Gly Phe  
 128512 275 280 285  
 128513 Ala Ala Gly Ala Gln Asn Ser Leu Gly Tyr Gln Gly Thr Gln Asp Phe  
 128514 290 295 300  
 128515 Tyr Lys Asn Ala Ala Val Phe Gly Arg Ile Arg Gly Leu Asp Ala Glu  
 128516 305 310 315 320  
 w-OK 128517 Gln Arg Thr Gly Ile Met Ile Phe Thr Ser Arg Ala Xaa Ser

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Input Set : N:\jumbos\540209.txt  
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E--> 128518                    325                    330                    335  
128671 <210> SEQ ID NO: 5675  
128672 <211> LENGTH: 173 172  
128673 <212> TYPE: PRT  
128674 <213> ORGANISM: Enterobacter cloacae  
128676 <400> SEQUENCE: 5675  
128677 Val Leu Glu Val Lys Thr Ala Gln Met Gly His Glu Ser Thr Arg Phe  
128678 1                    5                    10                    15  
128679 Thr Arg Leu Val Glu Asn Leu Asn Tyr Ala Val Glu Asn Leu Val Pro  
128680                    20                    25                    30  
128681 Thr Phe Gly Ser His Arg Ile Thr Gln Gln Gln Ser Ala Ala Leu Gly  
128682                    35                    40                    45  
128683 Arg Thr Ala Thr Gln Pro Ala Asn Gln Lys Ala Ile Ala Asn Leu Val  
128684                    50                    55                    60  
128685 Tyr Gly Gly Glu Trp Gly Lys Glu His Leu Gly Asn Gln Val Ala Gly  
128686 65                    70                    75                    80  
128687 Asp Gly Trp Lys Tyr Arg Gly Arg Gly Leu Lys Gln Ile Thr Gly Leu  
128688                    85                    90                    95  
128689 Ser Asn Tyr Arg Ser Cys Gly Gln Ala Leu Lys Leu Asp Leu Val Thr  
128690                    100                    105                    110  
128691 His Pro Glu Leu Leu Glu Lys Asp Glu Tyr Ala Ala Arg Ser Ala Ala  
128692                    115                    120                    125  
128693 Trp Phe Tyr Ala Ser Arg Gly Cys Leu Leu His Ser Gly Asp Val Glu  
128694                    130                    135                    140  
128695 Arg Val Thr Leu Leu Ile Asn Gly Gly Arg Asn Gly Leu Asp Lys Arg  
128696 145                    150                    155                    160  
128697 Arg Ala Leu Phe Asn Leu Ala Lys Ser Val Leu Val  
E--> 128698                    165                    170  
128723 <210> SEQ ID NO: 5677  
128724 <211> LENGTH: 114 113  
128725 <212> TYPE: PRT  
128726 <213> ORGANISM: Enterobacter cloacae  
128728 <400> SEQUENCE: 5677  
128729 Phe Pro Glu Leu Thr Ser Leu Pro Val Arg Ile Thr Leu Met Val Ser  
128730 1                    5                    10                    15  
128731 Gly Ile Val Val Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly  
128732                    20                    25                    30  
128733 Phe Gly Ala Gly Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg  
128734                    35                    40                    45  
128735 Leu Gly Trp Ser Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val  
128736                    50                    55                    60  
128737 Leu Ile Val Gly Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val  
128738 65                    70                    75                    80  
128739 Leu Tyr Ala Leu Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp  
128740                    85                    90                    95  
128741 Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile  
128742                    100                    105                    110  
E--> 128743 Val  
128746 <210> SEQ ID NO: 5678

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Input Set : N:\jumbos\540209.txt  
 Output Set: N:\CRF3\06212000\I540209.raw

128747 <211> LENGTH: 370 **369**  
 128748 <212> TYPE: PRT  
 128749 <213> ORGANISM: Enterobacter cloacae  
 128751 <220> FEATURE:  
 128752 <221> NAME/KEY: UNSURE  
 128753 <222> LOCATION: (341)  
 128755 <400> SEQUENCE: 5678  
 128756 Ser Leu His Ile Cys Val Lys Val Gly Phe Gln Cys Lys Lys Val Ile  
 128757 1 5 10 15  
 128758 Thr Met Asn Leu Leu Glu Lys Ile Ala Leu Val Gly Gln Arg Met Lys  
 128759 20 25 30  
 128760 Ser Glu Gln Ile Ser Leu Lys Glu Ser Leu Met Ala Ser Ser Arg Val  
 128761 35 40 45  
 128762 Ser Val Ser Asp Asp Ser Val Asp Gly Val Asp Arg Leu Ile Tyr Asn  
 128763 50 55 60  
 128764 His Cys Leu Asn Lys Lys Asn Leu Ser Asp Phe Phe Gly Lys Ser Arg  
 128765 65 70 75 80  
 128766 Val Thr Phe Asn Lys Ile Leu Ser Asp Leu Glu Glu Lys Glu Leu Val  
 128767 85 90 95  
 128768 Gly Ala Pro Ile Tyr Gln Asn Lys Asn His Leu Tyr Thr Arg Trp Asp  
 128769 100 105 110  
 128770 Val Gln Lys Ile Met Asp Ala Leu Gly Tyr Pro Lys Tyr Arg Asp His  
 128771 115 120 125  
 128772 Tyr Phe Ser Arg Ala Ile Val Thr Gln Asn His Lys Gly Gly Thr Gly  
 128773 130 135 140  
 128774 Lys Ser Thr Thr Ser Val Ala Leu Ala Val Ala Ala Leu Asp Leu  
 128775 145 150 155 160  
 128776 Gln Leu Asn Ala Arg Val Leu Met Ile Glu Trp Asp Pro Gln Gly Ser  
 128777 165 170 175  
 128778 Ile Gly Ser Ser Met Ile Gln Ser Val Ser Glu Asp Asp Val Phe Leu  
 128779 180 185 190  
 128780 Thr Ala Ile Asp Ala Ile Leu Gly Ile Tyr Glu Glu Asn Ser Glu Tyr  
 128781 195 200 205  
 128782 Lys Lys Tyr Leu Asp Ser Gly Phe Ser Glu Glu Glu Ile Ile Thr Asn  
 128783 210 215 220  
 128784 Met Pro Phe Ser Thr His Leu Pro Asn Leu Asp Val Ile Thr Ala Phe  
 128785 225 230 235 240  
 128786 Pro Thr Asp Ala Arg Phe Lys Asp Lys Tyr Trp Gln Cys Ser Arg Glu  
 128787 245 250 255  
 128788 Glu Arg Thr Ser Leu Leu Arg Phe Lys Glu Val Ile Leu Pro Val  
 128789 260 265 270  
 128790 Leu Lys Gln Asn Tyr Asp Leu Ile Ile Asp Thr Pro Pro Glu Asp  
 128791 275 280 285  
 128792 Ser Pro Leu Ile Trp Ala Ala Asp Glu Ala Ala Asp Gly Ile Leu Val  
 128793 290 295 300  
 128794 Ala Val Ser Pro Arg Glu Tyr Asp Tyr Ala Ser Thr Thr Asp Phe Met  
 128795 305 310 315 320  
 128796 Leu Thr Ile Ser Glu Arg Cys Lys Gln Ser Pro Ser Lys Gly Asp Asn  
 128797 325 330 335

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Input Set : N:\jumbos\540209.txt  
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128798 Leu Lys Trp Phe Xaa Val Leu Ala Val Asn Val Asn Asp Lys Ser Pro  
128799 340 345 350  
128800 Tyr Glu Arg Ile Val Leu Asp Lys Leu Ile Lys Thr Val Gln Gly Pro  
128801 355 360 365  
128802 Phe

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E--> 128803      370
128860 <210> SEQ ID NO: 5680
128861 <211> LENGTH: 357
128862 <212> TYPE: PRT
128863 <213> ORGANISM: Enterobacter cloacae
128865 <220> FEATURE:
128866 <221> NAME/KEY: UNSURE
128867 <222> LOCATION: (354)
128869 <400> SEQUENCE: 5680
128870 Thr Asp Glu Arg Ile Leu Thr Met Ser Asn Val Phe Tyr Met Pro Pro
128871 1 5 10 15
128872 Val Thr Leu Met Gly Leu Asn Ala Ile Arg Leu Leu Gly Asp Glu Leu
128873 20 25 30
128874 Val Ser Arg Glu Leu Lys Lys Ala Leu Ile Val Thr Asp Arg Val Leu
128875 35 40 45
128876 Ala Asp Thr Gly Leu Val Asn Lys Leu Thr Asp Glu Leu Ala His
128877 50 55 60
128878 Lys Ile Ser Tyr Ala Ile Phe Asp Gly Val Gln Pro Asn Pro Thr Glu
128879 65 70 75 80
128880 Lys Asn Ile Asp Asp Gly Leu Ala Leu Leu Ala Lys Ser Asn Ala Asp
128881 85 90 95
128882 Phe Val Ile Ser Phe Gly Gly Ser Ser His Asp Thr Ala Lys Gly
128883 100 105 110
128884 Ile Ala Leu Val Ala Thr Asn Gly Gly His Ile Arg Asp Tyr Ser Lys
128885 115 120 125
128886 Gly Val His Leu Ser Lys Lys Pro Gln Leu Pro Leu Val Thr Val Asn
128887 130 135 140
128888 Thr Thr Ala Gly Thr Ala Ser Glu Met Thr Val Phe Ala Ile Val Thr
128889 145 150 155 160
128890 Asn Gln Glu Asp Glu Thr Lys Tyr Pro Val Val Asp Lys His Phe Thr
128891 165 170 175
128892 Pro Ile Ile Ala Val Asn Asp Ser Glu Leu Met Val Ala Met Pro Ala
128893 180 185 190
128894 Phe Leu Thr Ala Thr Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu
128895 195 200 205
128896 Ala Tyr Val Ser Thr Ala Ala Thr Pro Val Thr Asp Ala Cys Ala Ile
128897 210 215 220
128898 Lys Ala Ile Glu Ile Ile Val Asn Asn Leu Lys Asp Val Val Asp Asp
128899 225 230 235 240
128900 Gly Gln Asn Arg Glu Ala Arg Asp Ala Met Gln Tyr Gly Glu Tyr Leu
128901 245 250 255
128902 Ala Gly Met Ala Phe Ser Asn Ala Ser Leu Gly Tyr Val His Ser Met
128903 260 265 270
128904 Ala His Gln Leu Gly Gly Val Tyr Asn Leu Ser His Gly Leu Cys Asn

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128905      275      280      285
128906 Ala Ile Leu Leu Gly Glu Val Ser Arg Phe Asn Ala Lys Lys Val Pro
128907      290      295      300
128908 Asp Arg Phe Val Glu Ile Ala Arg Ala Met Gly Ile Asp Val Ser Thr
128909      305      310      315      320
128910 Met Thr Gln Glu Gln Ala Ile Asn Ser Ala Ile Glu Ala Ile Glu Met
128911      325      330      335
128912 Leu Ser Gln Lys Val Gly Thr Asn Gln Arg Leu Ala Asp Arg Ala Ser
128913      340      345      350
W-OK 128914 Arg Xaa Ser Pro
E--> 128915      355
128917 <210> SEQ ID NO: 5681
128918 <211> LENGTH: 179
128919 <212> TYPE: PRT
128920 <213> ORGANISM: Enterobacter cloacae
128922 <400> SEQUENCE: 5681
128923 Gly Pro Lys Asp Leu Phe Pro Gln Lys Cys Asp Arg Val Met Ile Asp
128924      1      5      10      15
128925 Ala Ser Ser Val Val Ile Gly Asp Val Arg Met Ala Asp Asp Val Ser
128926      20      25      30
128927 Ile Trp Pro Leu Val Ala Ile Arg Gly Asp Val Asn Tyr Val Ala Ile
128928      35      40      45
128929 Gly Ala Arg Thr Asn Ile Gln Asp Gly Ser Val Leu His Val Thr His
128930      50      55      60
128931 Lys Ser Ser Tyr Asn Pro Glu Gly Asn Pro Leu Ile Ile Gly Glu Asp
128932      65      70      75      80
128933 Val Thr Val Gly His Lys Val Met Leu His Gly Cys Thr Ile Gly Asn
128934      85      90      95
128935 Arg Val Leu Val Gly Met Gly Ser Ile Leu Leu Asp Gly Val Ile Val
128936      100      105      110
128937 Glu Asp Asp Val Met Ile Gly Ala Gly Ser Leu Val Pro Gln Asn Lys
128938      115      120      125
128939 Arg Leu Glu Ser Gly Tyr Leu Tyr Leu Gly Ser Pro Ile Lys Gln Ile
128940      130      135      140
128941 Arg Pro Leu Lys Glu Ala Glu Ile Glu Gly Leu Lys Tyr Ser Ala Asn
128942      145      150      155      160
128943 Asn Tyr Val Lys Trp Lys Asn Asp Tyr Leu Asp Gln Asp Asn Gln Thr
128944      165      170      175
E--> 128945 Gln Pro
128965 <210> SEQ ID NO: 5683
128966 <211> LENGTH: 119
128967 <212> TYPE: PRT
128968 <213> ORGANISM: Enterobacter cloacae
128970 <400> SEQUENCE: 5683
128971 Trp Ser Gly His Ala Gly Gly Ala Gly Ser Cys Gly Ala Thr Leu
128972      1      5      10      15
128973 Ala Trp Arg Val Thr Cys Cys Arg Thr Gly Asp Arg Lys Ala Glu Lys
128974      20      25      30
128975 Gly Thr Asp Gly Met Asn Gln Ala Ile His Phe Pro Asp Arg Glu Ile

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```

128976          35          40          45
128977 Trp Asp Glu Asn Lys Gln Ala Val Cys Phe Pro Val Leu Val His Gly
128978          50          55          60
128979 Met Gln Leu Thr Cys Ala Ile Lys Gly Glu Thr Leu Leu Gln Arg Phe
128980 65          70          75          80
128981 Gly Gly Ser Asp Pro Leu Ala Val Phe Cys Glu Asn Arg Trp Asp Leu
128982          85          90          95
128983 Glu Glu Glu Ala Ser Asp Leu Ile Arg Val Gln Gln Glu Asp Asp Gln
128984          100         105         110
128985 Gly Trp Val Trp Leu Ser
E--> 128986          115
128988 <210> SEQ ID NO: 5684
128989 <211> LENGTH: 66 65
128990 <212> TYPE: PRT
128991 <213> ORGANISM: Enterobacter cloacae
128993 <400> SEQUENCE: 5684
128994 Ser Thr His Tyr Ala Gln Arg Lys Leu Gly Gly Arg Trp Gln Leu Arg
128995 1          5          10          15
128996 Gln Asn Phe Val Tyr Leu Val Ala Ile Phe Ala His Ile His Asn Leu
128997          20          25          30
128998 Trp Ser Val Lys Ile Leu Ser Pro Gln Pro Val Ile Tyr Ala Leu Met
128999          35          40          45
129000 Ala Leu Ala Leu Leu Ala Trp Arg Tyr Lys Lys Phe Arg Gln Trp Leu
129001          50          55          60
129002 Arg
E--> 129003 65
129005 <210> SEQ ID NO: 5685
129006 <211> LENGTH: 174 173
129007 <212> TYPE: PRT
129008 <213> ORGANISM: Enterobacter cloacae
129010 <400> SEQUENCE: 5685
129011 Lys Gly Asp Asn Cys Ala Leu Arg Val Tyr Val Val Phe Tyr Pro Lys
129012 1          5          10          15
129013 Ile Ala Gly Asp Ser Gly Ile Met Ala Asp Lys Phe Gln Ile Leu Val
129014          20          25          30
129015 Leu Asn Gly Pro Asn Leu Asn Met Leu Gly Thr Arg Glu Pro Glu Lys
129016          35          40          45
129017 Tyr Gly Thr Leu Thr Leu Ser Glu Ile Val Asn Arg Leu Ser Thr Glu
129018          50          55          60
129019 Ala Ala Ser Leu Asn Val Asp Leu Asp His Phe Gln Ser Asn Ala Glu
129020 65          70          75          80
129021 Tyr Ala Ile Ile Asp Arg Ile His Gln Ala Lys Asp Thr Val Asp Tyr
129022          85          90          95
129023 Ile Leu Ile Asn Pro Ala Ala Phe Thr His Thr Ser Val Ala Ile Arg
129024          100         105         110
129025 Asp Ala Leu Leu Ala Val Ser Ile Pro Phe Ile Glu Ile His Leu Ser
129026          115         120         125
129027 Asn Val His Ala Arg Glu Pro Phe Arg His His Ser Tyr Leu Ser Asp
129028          130         135         140

```

## RAW SEQUENCE LISTING

DATE: 06/21/2000

PATENT APPLICATION: US/09/540,209

TIME: 11:59:03

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

```

129029 Ile Ala Ala Gly Val Ile Cys Gly Leu Gly Ala Asp Gly Tyr Ser Tyr
129030 145 150 155 160
129031 Ala Leu Gln Thr Ala Val Lys Arg Leu Ser Gln Ser His
E--> 129032 165 170
129034 <210> SEQ ID NO: 5686
129035 <211> LENGTH: 197
129036 <212> TYPE: PRT
129037 <213> ORGANISM: Enterobacter cloacae
129039 <400> SEQUENCE: 5686
129040 Gln Arg His Thr Pro Ala Ala Lys Asn Trp His Pro Tyr Cys Lys Thr
129041 1 5 10 15
129042 Cys Leu Thr Thr Gln Pro Leu Pro Ala Arg Tyr Phe Arg Thr Gly Gly
129043 20 25 30
129044 Asn Met Asn Leu Arg Arg Leu Lys Tyr Phe Val Lys Ile Val Asp Ile
129045 35 40 45
129046 Gly Ser Leu Thr Gln Ala Ala Glu Val Leu His Ile Ala Gln Pro Ala
129047 50 55 60
129048 Leu Ser Gln Gln Val Ala Thr Leu Glu Gly Glu Met Asp Gln Gln Leu
129049 65 70 75 80
129050 Leu Ile Arg Thr Lys Arg Gly Val Thr Pro Thr Glu Ala Gly Lys Ile
129051 85 90 95
129052 Leu Tyr Thr His Ala Arg Thr Ile Leu Arg Gln Cys Glu Gln Ala Gln
129053 100 105 110
129054 Leu Ala Val His Asn Val Gly Gln Thr Leu Ser Gly His Val Ser Ile
129055 115 120 125
129056 Gly Leu Ala Pro Gly Thr Ala Ala Ser Ser Val Thr Met Pro Leu Leu
129057 130 135 140
129058 Gln Ala Val Arg Ala Glu Leu Pro Glu Val Leu Val Tyr Leu His Glu
129059 145 150 155 160
129060 Asn Ser Gly Ser Val Leu Asn Asp Lys Leu Leu Asn Gly Gln Leu Asp
129061 165 170 175
129062 Met Gly Gly Ala Val Arg Ser Leu Pro Gly Cys Arg Asp His Gln Pro
129063 180 185 190
129064 Ala Ala Ala Glu
E--> 129065 195
129067 <210> SEQ ID NO: 5687
129068 <211> LENGTH: 180
129069 <212> TYPE: PRT
129070 <213> ORGANISM: Enterobacter cloacae
129072 <400> SEQUENCE: 5687
129073 Leu Ile Asp Gln Pro Val Lys Val Thr Thr Glu Pro Asp Gly Ser Arg
129074 1 5 10 15
129075 Trp Val Glu Val His Glu Pro Leu Ser Arg Asn Arg Ala Glu Phe Glu
129076 20 25 30
129077 Ser Thr Asn Lys Val Pro Leu Pro Ile Ser Ala Ala Gln Arg Thr Gln
129078 35 40 45
129079 Leu Ile Ser Glu Gly Ala Gly Ala Glu Leu Glu Arg Arg Ser Gly Met
129080 50 55 60
129081 Pro Val Lys Leu Ala Met Thr Gly Ser Ala Ser Leu Ala Gly Pro

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/540,209

DATE: 06/21/2000  
 TIME: 11:59:03

Input Set : N:\jumbos\540209.txt  
 Output Set: N:\CRF3\06212000\I540209.raw

```

E--> 129082 65          70          75          80
129084 <210> SEQ ID NO: 5688
129085 <211> LENGTH: 114 113
129086 <212> TYPE: PRT
129087 <213> ORGANISM: Enterobacter cloacae
129089 <400> SEQUENCE: 5688
129090 Pro Cys Arg Cys Phe Arg Arg Cys Glu Gln Ser Tyr Arg Lys Cys Trp
129091 1          5          10          15
129092 Phe Ile Cys Met Arg Thr Val Val Pro Cys Ser Met Thr Asn Cys Ser
129093          20          25          30
129094 Thr Val Ser Trp Ile Trp Ala Val Leu Tyr Asp Arg Ser Pro Val Ala
129095          35          40          45
129096 Gly Ile Thr Ser Gln Pro Leu Leu Asn Glu Asp Leu Tyr Leu Val Gly
129097 50          55          60
129098 Thr Arg Asp Cys Pro Gly Gln Ser Ile Asp Leu Thr Ala Val Ala Gln
129099 65          70          75          80
129100 Met Asn Leu Phe Leu Ala Arg Asp Tyr Ser Ala Leu Arg Leu Arg Phe
129101          85          90          95
129102 Asp Glu Thr Pro Ser Leu Arg Pro Leu Asn Ala Asn Asn Phe Leu Leu
129103          100          105          110

E--> 129104 Glu
129107 <210> SEQ ID NO: 5689
129108 <211> LENGTH: 164 163
129109 <212> TYPE: PRT
129110 <213> ORGANISM: Enterobacter cloacae
129112 <400> SEQUENCE: 5689
129113 Pro Val Tyr Thr Pro Leu Ala Leu Arg Asp Trp Phe Arg Ala Ala Pro
129114 1          5          10          15
129115 Arg Asn Pro Leu Lys Pro Leu Pro Arg Leu Arg Leu Val Gln His Arg
129116          20          25          30
129117 Ala Asp Arg Glu Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala
129118          35          40          45
129119 Gly Leu Ala Asp Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu
129120 50          55          60
129121 Asp Glu His Arg Arg Leu Leu Glu Arg Cys Glu Gly Lys Gln Leu Ala
129122 65          70          75          80
129123 Ala Trp Met Arg Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly
129124          85          90          95
129125 Lys Leu Pro Ser Ile Ser Pro Ala Leu Leu Arg Gln Leu Ala Gly Met
129126          100          105          110
129127 Gly Asn Asn Leu Asn Gln Ile Ala Arg Gln Val Asn Ala Gly Gly Gly
129128          115          120          125
129129 Ser Gly His Asp Arg Val Gln Ile Val Ala Ala Leu Met Ala Ile Asp
129130          130          135          140
129131 Ala Gly Leu Glu Arg Leu Arg His Ala Val Leu Glu Lys Gly Ala Asp
129132 145          150          155          160

E--> 129133 Asp Asp Arg
129238 <210> SEQ ID NO: 5692
129239 <211> LENGTH: 189 188

```

## RAW SEQUENCE LISTING

DATE: 06/21/2000

PATENT APPLICATION: US/09/540,209

TIME: 11:59:03

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

```

129240 <212> TYPE: PRT
129241 <213> ORGANISM: Enterobacter cloacae
129243 <400> SEQUENCE: 5692
129244 Thr Thr Val Leu Pro Ala Gly Leu Gly Glu Asn Asn Thr Ile Ser Gly
129245 1 5 10 15
129246 Leu Leu Phe Leu Trp Val Pro Thr Arg Lys Thr Asn Phe Ile His Gly
129247 20 25 30
129248 Glu Pro Leu Arg Gly Val Ile Thr Gln Ser Glu Asp Phe Arg Met Ala
129249 35 40 45
129250 Lys Lys Val Gln Ala Tyr Val Lys Leu Gln Val Ala Ala Gly Met Ala
129251 50 55 60
129252 Asn Pro Ser Pro Pro Val Gly Pro Ala Leu Gly Gln Gln Gly Val Asn
129253 65 70 75 80
129254 Ile Met Glu Phe Cys Lys Ala Phe Asn Ala Lys Thr Glu Ser Met Glu
129255 85 90 95
129256 Lys Gly Leu Pro Ile Pro Val Val Ile Thr Val Tyr Ala Asp Arg Ser
129257 100 105 110
129258 Phe Thr Phe Val Thr Lys Thr Pro Pro Ala Ala Val Leu Leu Lys Lys
129259 115 120 125
129260 Ala Ala Gly Ile Lys Ser Gly Ser Gly Lys Pro Asn Lys Asp Lys Val
129261 130 135 140
129262 Gly Lys Ile Ser Arg Ala Gln Leu Gln Glu Ile Ala Gln Thr Lys Ala
129263 145 150 155 160
129264 Ala Asp Met Thr Gly Ser Asp Ile Glu Ala Met Thr Arg Ser Ile Glu
129265 165 170 175
129266 Gly Thr Ala Arg Ser Met Gly Leu Val Val Glu Asp
129267 180 185
E--> 129269 <210> SEQ ID NO: 5693
129270 <211> LENGTH: 235
129271 <212> TYPE: PRT
129272 <213> ORGANISM: Enterobacter cloacae
129274 <400> SEQUENCE: 5693
129275 Glu Met Ala Lys Leu Thr Lys Arg Met Ser Val Ile Arg Asp Lys Val
129276 1 5 10 15
129277 Asp Ala Thr Lys Gln Tyr Asp Ile Asn Glu Ala Ile Ala Leu Leu Lys
129278 20 25 30
129279 Glu Leu Ala Thr Ala Lys Phe Val Glu Ser Val Asp Val Ala Val Asn
129280 35 40 45
129281 Leu Gly Ile Asp Ala Arg Lys Ser Asp Gln Asn Val Arg Gly Ala Thr
129282 50 55 60
129283 Val Leu Pro His Gly Thr Gly Arg Ser Val Arg Val Thr Val Phe Ala
129284 65 70 75 80
129285 Gln Gly Ala Asn Ala Glu Ser Ala Lys Ala Ala Gly Ala Glu Leu Val
129286 85 90 95
129287 Gly Met Glu Asp Leu Ala Asp Gln Ile Lys Lys Gly Glu Met Asn Phe
129288 100 105 110
129289 Asp Val Val Ile Ala Ser Pro Asp Ala Met Arg Val Val Gly Gln Leu
129290 115 120 125
129291 Gly Gln Val Leu Gly Pro Arg Gly Leu Met Pro Asn Pro Lys Val Gly

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/540,209

DATE: 06/21/2000  
TIME: 11:59:03

Input Set : N:\jumbos\540209.txt  
Output Set: N:\CRF3\06212000\I540209.raw

```

129292      130      135      140
129293 Thr Val Thr Pro Asn Val Ala Glu Ala Val Lys Asn Ala Lys Ala Gly
129294 145      150      155      160
129295 Gln Val Arg Tyr Arg Asn Asp Lys Asn Gly Ile Ile His Thr Thr Ile
129296      165      170      175
129297 Gly Lys Val Asp Phe Asp Ala Asp Lys Leu Lys Glu Asn Leu Glu Ala
129298      180      185      190
129299 Leu Leu Val Ala Leu Lys Lys Ala Lys Pro Thr Gln Ala Lys Gly Val
129300      195      200      205
129301 Tyr Ile Lys Lys Val Ser Ile Ser Thr Thr Met Gly Ala Gly Val Ala
129302      210      215      220
129303 Val Asp Gln Ala Gly Leu Ser Ala Ala Ala Asn
E--> 129304 225      230      235

```

*The same discrepancy  
error exist in seqs.  
5695-5697, 5700-01,  
5703-04, 5706-5708,  
5710-5714, 5716-18,  
5720-24, 5726-32*

*FYI*  
↓

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

DATE: 06/21/2000

PATENT APPLICATION: US/09/540,209

TIME: 11:59:46

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:49 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:49 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2  
L:130 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7  
L:130 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7  
L:191 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9  
L:191 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9  
L:241 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11  
L:241 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11  
L:269 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12  
L:269 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12  
L:554 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:554 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14  
L:555 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
M:340 Repeated in SeqNo=14  
L:570 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15  
L:570 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
L:604 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:16  
L:604 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16  
L:634 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:17  
L:634 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17  
L:663 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18  
L:663 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18  
L:717 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:22  
L:717 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22  
L:809 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:28  
L:809 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28  
L:897 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:32  
L:897 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
L:967 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:36  
L:967 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36  
L:1181 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:49  
L:1181 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:49  
L:1226 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:52  
L:1226 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:52  
L:1320 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:57  
L:1320 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57  
L:1362 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:60  
L:1362 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60  
L:1416 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:62  
L:1416 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62  
L:1451 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:64  
L:1451 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64  
L:1570 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72  
L:1570 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72  
L:1574 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72  
M:340 Repeated in SeqNo=72

## VERIFICATION SUMMARY

DATE: 06/21/2000

PATENT APPLICATION: US/09/540,209

TIME: 11:59:46

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

L:1603 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:74  
L:1603 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74  
L:1654 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:75  
L:1654 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:75  
L:1883 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:88  
L:1883 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:88  
L:2094 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:100  
L:2094 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:100  
L:2111 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101  
L:2111 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101  
L:2159 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102  
L:2159 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102  
L:2187 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103  
L:2187 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103  
L:2188 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103  
M:340 Repeated in SeqNo=103  
L:2361 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:113  
L:2361 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:113  
L:2555 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:122  
L:2555 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122  
L:2650 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127  
L:2650 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:127  
L:2668 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127  
M:340 Repeated in SeqNo=127  
L:2669 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127  
L:2820 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:134  
L:2820 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:134  
L:2852 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135  
L:2852 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135  
L:2853 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135  
M:340 Repeated in SeqNo=135  
L:3066 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148  
L:3066 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:148  
L:3089 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:149  
L:3089 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:149  
L:3171 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:152  
L:3171 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:152  
L:3288 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156  
L:3288 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156  
L:3290 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156  
M:340 Repeated in SeqNo=156  
L:3291 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156  
L:3292 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156  
L:3339 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:158  
L:3339 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:158  
L:3519 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160  
L:3519 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:160  
L:3522 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160  
M:340 Repeated in SeqNo=160



## VERIFICATION SUMMARY

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Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

L:3523 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160  
L:3692 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:161  
M:340 Repeated in SeqNo=161  
L:4207 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189  
L:4224 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:190  
L:128273 M:252 E: No. of Seq. differs, <211>LENGTH:Input:77 Found:76 SEQ:5664  
L:128321 M:252 E: No. of Seq. differs, <211>LENGTH:Input:89 Found:88 SEQ:5666  
L:128346 M:252 E: No. of Seq. differs, <211>LENGTH:Input:131 Found:130 SEQ:5667  
L:128383 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5668  
L:128383 M:252 E: No. of Seq. differs, <211>LENGTH:Input:225 Found:224 SEQ:5668  
L:128465 M:252 E: No. of Seq. differs, <211>LENGTH:Input:308 Found:307 SEQ:5670  
L:128518 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5671  
L:128518 M:252 E: No. of Seq. differs, <211>LENGTH:Input:335 Found:334 SEQ:5671  
L:128698 M:252 E: No. of Seq. differs, <211>LENGTH:Input:173 Found:172 SEQ:5675  
L:128743 M:252 E: No. of Seq. differs, <211>LENGTH:Input:114 Found:113 SEQ:5677  
L:128803 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5678  
L:128803 M:252 E: No. of Seq. differs, <211>LENGTH:Input:370 Found:369 SEQ:5678  
L:128915 M:252 E: No. of Seq. differs, <211>LENGTH:Input:357 Found:356 SEQ:5680  
L:128945 M:252 E: No. of Seq. differs, <211>LENGTH:Input:179 Found:178 SEQ:5681  
L:128986 M:252 E: No. of Seq. differs, <211>LENGTH:Input:119 Found:118 SEQ:5683  
L:129003 M:252 E: No. of Seq. differs, <211>LENGTH:Input:66 Found:65 SEQ:5684  
L:129032 M:252 E: No. of Seq. differs, <211>LENGTH:Input:174 Found:173 SEQ:5685  
L:129065 M:252 E: No. of Seq. differs, <211>LENGTH:Input:197 Found:196 SEQ:5686  
L:129082 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5687  
L:129082 M:252 E: No. of Seq. differs, <211>LENGTH:Input:80 Found:79 SEQ:5687  
L:129104 M:252 E: No. of Seq. differs, <211>LENGTH:Input:114 Found:113 SEQ:5688  
L:129133 M:252 E: No. of Seq. differs, <211>LENGTH:Input:164 Found:163 SEQ:5689  
L:129267 M:252 E: No. of Seq. differs, <211>LENGTH:Input:189 Found:188 SEQ:5692  
L:129304 M:252 E: No. of Seq. differs, <211>LENGTH:Input:236 Found:235 SEQ:5693  
L:129352 M:252 E: No. of Seq. differs, <211>LENGTH:Input:128 Found:127 SEQ:5695  
L:129385 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5696  
L:129385 M:252 E: No. of Seq. differs, <211>LENGTH:Input:200 Found:199 SEQ:5696  
L:129408 M:252 E: No. of Seq. differs, <211>LENGTH:Input:119 Found:118 SEQ:5697  
L:129527 M:252 E: No. of Seq. differs, <211>LENGTH:Input:172 Found:171 SEQ:5700  
L:129556 M:252 E: No. of Seq. differs, <211>LENGTH:Input:173 Found:172 SEQ:5701  
L:129632 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5703  
L:129632 M:252 E: No. of Seq. differs, <211>LENGTH:Input:85 Found:84 SEQ:5703  
L:129667 M:252 E: No. of Seq. differs, <211>LENGTH:Input:219 Found:218 SEQ:5704  
L:129705 M:252 E: No. of Seq. differs, <211>LENGTH:Input:111 Found:110 SEQ:5706  
L:129742 M:252 E: No. of Seq. differs, <211>LENGTH:Input:233 Found:232 SEQ:5707  
L:129769 M:252 E: No. of Seq. differs, <211>LENGTH:Input:158 Found:157 SEQ:5708  
L:129815 M:252 E: No. of Seq. differs, <211>LENGTH:Input:113 Found:112 SEQ:5710  
L:129852 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5711  
L:129852 M:252 E: No. of Seq. differs, <211>LENGTH:Input:185 Found:184 SEQ:5711  
L:129887 M:252 E: No. of Seq. differs, <211>LENGTH:Input:212 Found:211 SEQ:5712  
L:129912 M:252 E: No. of Seq. differs, <211>LENGTH:Input:134 Found:133 SEQ:5713  
L:129957 M:252 E: No. of Seq. differs, <211>LENGTH:Input:303 Found:302 SEQ:5714  
L:130003 M:252 E: No. of Seq. differs, <211>LENGTH:Input:119 Found:118 SEQ:5716  
L:130036 M:252 E: No. of Seq. differs, <211>LENGTH:Input:208 Found:207 SEQ:5717

## VERIFICATION SUMMARY

DATE: 06/21/2000

PATENT APPLICATION: US/09/540,209

TIME: 11:59:46

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

L:130077 M:252 E: No. of Seq. differs, <211>LENGTH:Input:262 Found:261 SEQ:5718  
L:130129 M:252 E: No. of Seq. differs, <211>LENGTH:Input:166 Found:165 SEQ:5720  
L:130146 M:252 E: No. of Seq. differs, <211>LENGTH:Input:73 Found:72 SEQ:5721  
L:130189 M:252 E: No. of Seq. differs, <211>LENGTH:Input:287 Found:286 SEQ:5722  
L:130222 M:252 E: No. of Seq. differs, <211>LENGTH:Input:209 Found:208 SEQ:5723  
L:130247 M:252 E: No. of Seq. differs, <211>LENGTH:Input:124 Found:123 SEQ:5724  
L:130307 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5726  
L:130307 M:252 E: No. of Seq. differs, <211>LENGTH:Input:255 Found:254 SEQ:5726  
L:130340 M:252 E: No. of Seq. differs, <211>LENGTH:Input:202 Found:201 SEQ:5727  
L:130367 M:252 E: No. of Seq. differs, <211>LENGTH:Input:154 Found:153 SEQ:5728  
L:130382 M:252 E: No. of Seq. differs, <211>LENGTH:Input:64 Found:63 SEQ:5729  
L:130405 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5730  
L:130405 M:252 E: No. of Seq. differs, <211>LENGTH:Input:120 Found:119 SEQ:5730  
L:130422 M:252 E: No. of Seq. differs, <211>LENGTH:Input:72 Found:71 SEQ:5731  
L:130443 M:252 E: No. of Seq. differs, <211>LENGTH:Input:104 Found:103 SEQ:5732  
L:130611 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5736  
L:130959 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5746  
L:131118 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5751  
L:131135 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5752  
L:131197 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5754  
L:131306 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5757  
L:131695 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5766  
L:131714 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5767  
L:131741 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5768  
L:131770 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5769  
L:132237 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5780  
L:132608 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5791  
L:132981 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5800  
L:133010 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5801  
L:133945 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5824  
L:134076 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5829  
L:134093 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5830  
L:134450 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5839  
L:134546 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5841  
L:134961 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5854  
L:135201 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5860  
L:135421 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5866  
L:136052 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5879  
L:136490 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5889  
L:137004 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5905  
L:137074 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5907  
L:137099 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5908  
L:137744 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5925  
L:137852 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5927  
L:137974 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5931  
L:138037 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5932  
L:138252 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5937  
L:138614 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5945  
L:138733 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5948

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/540,209

DATE: 06/21/2000

TIME: 11:59:46

Input Set : N:\jumbos\540209.txt

Output Set: N:\CRF3\06212000\I540209.raw

L:138789 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5950  
L:139330 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5965  
L:139433 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5968  
L:139622 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5973  
L:139724 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5977  
L:139846 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5981  
L:139863 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5982